

SYSTEMS APPROACH TO TRAINING GUIDE

APPENDIX A

MASTER LESSON FILE (MLF)/LEARNING ANALYSIS

1. APPENDIX A provides a sample MLF containing the Learning Analysis Worksheets (LAW) and the Learning Objective Worksheets (LOW) for Individual Training Standard (ITS) 0311.3.1. The MLF also contains a lesson plan, student handout, and lesson slides with associated checklists.
2. The running head "SYSTEMS APPROACH TO TRAINING GUIDE," has been omitted from the remaining pages of APPENDIX A to maintain the integrity of the sample MLF. Page numbering for APPENDIX A has also been suppressed.

TSP-150

INSTRUCTOR TRAINING COURSE

TRAINING SUPPORT PACKAGE

SAMPLE MASTER LESSON FILE

CHECKLIST

ASSEMBLE A MASTER LESSON FILE

(IMS Rev Sep 91)

Student: _____

Evaluator: _____

	PP	Y/ N	PNTS
1. Individual Training Standard	4		
2. Learning Analysis Worksheet (with scratch paper)	25		
3. Learning Analysis Worksheet Checklist () completed () accurate with respect to doc	2		
4. Learning Objective Worksheet	20		
5. Learning Objective Checklist () completed () accurate with respect to LO	2		
6. Test Item Checklist () completed () accurate with respect to doc	2		
7. Methods and Media Selection Checklist () completed () accurate with respect to doc	2		
8. Media (list of supporting papers)	7		
9. Concept Card	5		
10. Concept Card Checklist () completed () accurate with respect to doc	2		
11. Lesson Plan	20		
12. Lesson Plan Checklist () completed () accurate with respect to doc	2		
13. Student Handout	5		
14. Student Handout Checklist () completed () accurate with respect to doc	2		

Comments/Remarks:

TOTAL: _____

SAMPLE

MCO 1510. 35B

DUTY AREA 3 - EMPLOYMENT

TASK: 0311.3.1 CLEAN THE M203 GRENADE LAUNCHER

CONDITION(S): Given an M203 grenade launcher, lubricant, preservative, rags, and swabs; during day and darkness.

STANDARD: In accordance with FM 23-31, 40mm Grenade Launchers M203 and M79.

PERFORMANCE STEPS:

1. Clear the weapon.
2. Disassemble the weapon.
3. Clean the components.
4. Inspect the weapon before assembly.
5. Assemble the weapon.
6. Perform a function check of the M203.

REFERENCE(S):

1. Battle Drill Guide
2. FM 23-31, 40mm Grenade Launchers M203 and M79.

ADMINISTRATIVE INSTRUCTIONS:

1. This task is taught to standard as part of the BWT/MCT training package.

CHECKLIST
LEARNING ANALYSIS WORKSHEET
(IMS Rev SEP 91)

Student: _____

Evaluator: _____

	Y/ N	PP	PNTS
1. LAW FORMAT			
() Is the LAW dated (when analysis occurred)?		4	
() Designator is verbatim from JDS/ITS?		5	
() Task behavior is verbatim from JDS/ITS?		6	
() Performance steps are verbatim from JDS/ITS?		6	
() Each page of page is numbered?		4	
2. LEARNING ANALYSIS			
() Is there at least one K/S/V for each step?		8	
() Do listed K/S/V ' s relate to the ref(s)?		4	
() Are any grouped K/S/V 's appropriate? (there must be one behavior that will, by the student performing the behavior, prove to the instructor that the student possesses all of the K/S/V 's within the group)		25	
() Are all grouped K/S/V 's annotated with a unique small letter designator in the sequence which the group should be taught?		20	
() K/S/V 's circled by themselves or in a group		8	
() K/S/V 's worded properly? (NOT INFORMATION)		10	
TOTAL		100	

Comments/Remarks:

Key:

K = Knowledge

S = Skill

V = Value/Attitude

JDS = Job Data Sheet

ITS = Individual Training Standard

LEARNING ANALYSIS WORKSHEET

DATE: 21 Jan 91

JOB/DUTY TITLE: Infantryman

ITS TASK BEHAVIOR: Clean the M203 Grenade Launcher

ITS #: 0311.3.1

PERFORMANCE STEPS:

1. *Clear the weapon*

KNOWLEDGES AND SKILLS:

*Know the nomenclature of the
M203 Grenade Launcher*

a

Know why we clear the weapon

*Know what makes a complete
safe weapon*

Know how to clear the weapon

*Know handling procedures for
unused ammo*

* *Nomenclature taught in lesson 0311.2.3*

LEARNING ANALYSIS WORKSHEET

DATE: 21 Jan 91

JOB/DUTY TITLE: Infantryman

ITS TASK BEHAVIOR: Clean the M203 Grenade Launcher

ITS #: 03113.1

PERFORMANCE STEPS:

2. *Disassemble the weapon.*

KNOWLEDGES AND SKILLS NEEDED:

Know the steps in disassembly

Know the sequence of the steps

*Know the 2 methods for
disassembly of the barrel
assembly*

a

LEARNING ANALYSIS WORKSHEET

DATE: 21 Jan 91

JOB/DUTY TITLE: Infantryman

ITS TASK BEHAVIOR: Clean the M203 Grenade Launcher

ITS #: 03113.1

PERFORMANCE STEPS:

3. *Clean the components*

b

KNOWLEDGES AND SKILLS NEEDED:

*Know necessary authorized
cleaning equipment*

Know authorized lubricants

*Know authorized lubrication
points*

Know how to clean bore

Know how to clean receiver

*Know what to do with sights
while cleaning*

LEARNING ANALYSIS WORKSHEET

DATE: 21 Jan 91

JOB/DUTY TITLE: Infantryman

ITS TASK BEHAVIOR: Clean the M203 Grenade Launcher

ITS #: 0311.3.1

PERFORMANCE STEPS:	KNOWLEDGES AND SKILLS NEEDED:
<p>4. <i>Inspect the weapon before assembly.</i></p> <p>b</p>	<p><i>Know how to inspect barrel</i></p> <p><i>Know how to inspect firing pin hole</i></p> <p><i>Know how to inspect sights</i></p>

LEARNING ANALYSIS WORKSHEET

DATE: 21 Jan 91

JOB/DUTY TITLE: Infantryman

ITS TASK BEHAVIOR: Clean the M203 Grenade Launcher

ITS #: 03113.1

PERFORMANCE STEPS:

4. *Assemble the weapon*

C

KNOWLEDGES AND SKILLS NEEDED:

Know the steps in assembly

Know the sequence of the steps

LEARNING ANALYSIS WORKSHEET

DATE: 21 Jan 91

JOB/DUTY TITLE: Infantryman

ITS TASK BEHAVIOR: Clean the M203 Grenade Launcher

ITS #: 03113.1

PERFORMANCE STEPS:

6. *Perform a functions check
of the M203*

c

KNOWLEDGES AND SKILLS NEEDED:

*Know why we perform a
functions check*

*Know the steps of a functions
check*

*Know the sequence of the
steps*

CHECKLIST
LEARNING OBJECTIVE WORKSHEET
(IMS Rev SEP 91)

	Y/N	NA	PP	PTS
1. LOW				
a. Is LOW dated (when were LO's written)?			2	
b. Is the designator verbatim from the LAW?			3	
c. Is the task behavior verbatim from the LAW?			3	
d. Each page of page is numbered?			2	
e. Is the correct type of LO circled?			2	
2. TLO				
a. Is there one TLO only for the ITS/JDS task?			6	
b. If TLO is degraded is there a rationale why?			5	
c. Is a TLO designator in parentheses after the TLO?			5	
(designator must match ITS/Task designator)			5	
3. ELO				
a. Is there an ELO for each grouping of K/S/V's?			5	
b. Does the behavior in the ELO make sense in convincing you that the student possesses the K/S/V's listed in the group?			5	
c. Is there an ELO designator in parentheses after the ELO? (same as TLO designator with the addition of a small letter that is the same as grouping of K/S/V's it applies to)			5	
4. BEHAVIOR				
a. Does the behavior possess a single action verb?			7	
b. Does the behavior possess a single object?			7	
c. Is the behavior observable and measurable?			5	
d. If the behavior is not observable, is there a qualifier that ensures an observable product?			3	
e. Is the behavior reliable? (not open to interpretation)			7	
f. Is the behavior realistic? (could student do it?)			2	
5. CONDITION				
a. Does the condition describe the environment?			5	
b. Does the condition describe aiding/limiting factors?			2	
c. Are implied conditions NOT written.			2	
d. Is the condition realistic? (can school provide)			2	
6. STANDARD (each LO)				
a. Does standard tell HOW WELL the student will have to perform?			7	
b. Is standard realistic? (considering what was taught, can the student perform at this level)			2	
7. Is the learning objective as concise as possible? (no meaningless conditions; LO has only relevant behavior, conditions, and standards)			6	

NOTE 1: Any item checked not applicable add points to total.
NOTE 2: All LO's must be averaged in to the above checklist.

TOTAL: _____

Comments /Remarks:

LEARNING OBJECTIVE WORKSHEET
(IMS Rev SEP 91)

ITS #: 0311.3.1

DATE: 29 Jan 91

ITS TASK BEHAVIOR: Clean the M203 Grenade Launcher

TLO (Circle One): *Without the aid of references and provided the necessary materials, clean the M203 Grenade Launcher in accordance with the clean the M203 Grenade Launcher Checklist (0311.3.1)*

If downgraded from ITS, provide rationale: N/A

TEST ITEM/EVALUATION: *Performance test - See attached checklist*

METHOD/MEDIA: *Lecture, Demonstration, Practical Application Computer Generated Graphics, Handouts, M203 Grenade Launchers*

Provide rationale: *N/A*

Approvals (if required by local SOP):

(Name/Date)

LEARNING OBJECTIVE WORKSHEET
(IMS Rev SEP 91)

ITS #: 0311.3.1

DATE: 29 Jan 91

ITS TASK BEHAVIOR: Clean the M203 Grenade Launcher

TLO/ELO (Circle One): *Without the aid of references, disassemble the M203 Grenade Launcher in accordance with the clean the M203 Grenade Launcher checklist and with a time limit of four minutes (0311.3.1a)*

If downgraded from ITS, provide rationale: *N/A*

TEST ITEM/EVALUATION: *See TLO*

METHOD/MEDIA: *See TLO*

Provide rationale: *N/A*

Approvals (if required by local SOP):

(Name/Date)

LEARNING OBJECTIVE WORKSHEET
(IMS Rev SEP 91)

ITS #: 0311.31

DATE: 29 Jan 91

ITS TASK BEHAVIOR: Clean the M203 Grenade Launcher

TLO/ELO (Circle One): *Without the aid of references and provided the necessary materials clean the components of the M203 Grenade Launcher, in Accordance with the clean the M203 Grenade Launcher checklist (0311.3.1b)*

If downgraded from ITS, provide rationale: *N/A*

TEST ITEM/EVALUATION: *See TLO*

METHOD/MEDIA: *See TLO*

Provide rationale: *N/A*

Approvals (if required by local SOP):

(Name/Date)

LEARNING OBJECTIVE WORKSHEET
(IMS Rev SEP 91)

ITS #: 0311.3.1

DATE: 29 Jan 91

ITS TASK BEHAVIOR: Clean the M203 Grenade Launcher

TLO/ELO (Circle One) : *Without the aid of references, assemble the M203 Grenade Launcher in accordance with the clean the M203 Grenade Launcher checklist and in a time limit of four minutes (0311.3.1c)*

If downgraded from ITS, provide rationale: *N/A*

TEST ITEM/EVALUATION: *See TLO*

METHOD/MEDIA: *See TLO*

Provide rationale: *N/A*

Approvals (if required by local SOP):

(Name/Date)

CHECKLIST

CLEAN THE M203 GRENADE LAUNCHER

NAME/RANK _____ CLASS _____

	PTS	Y/N
1. <u>DISASSEMBLY</u>	5	
a. Clear the weapon. Clear the M16A1 first.	3	
Depress the barrel latch, slide barrel assembly forward	4	
Visually inspect the breech.	3	
Put weapon on safe.	5	
b. Remove quadrant sight.	5	
c. Remove handguards.		
d. Remove barrel.	5	
Depress barrel latch, slide barrel assembly forward.		
Depress barrel stop, slide barrel off receiver track.		
2. <u>CLEANING/INSPECTION</u>	5	
a. Use only authorized cleaning agents.	10	
b. (May be done in any sequence.)	10	
BARREL ASSEMBLY - inspect for cracks.	5	
RECEIVER - no dirt or rust in firing pin hole, face of receiver clean.	5	
HANDGUARDS - inspect for cracks.		
SIGHTS - not bent, markings legible.		
3. <u>ASSEMBLY</u>	5	
a. Install the barrel.	5	
b. Install the handguard.	5	
c. Install quadrant sight.		
d. Perform a function check.	5	
(1) Cock launcher and squeeze trigger.		
(Firing pin should release.)	5	
(2) Hold trigger to rear and cock launcher.		
Release trigger and then squeeze trigger.	5	
(Firing pin should release.)	5	
(3) Check safety in both fire and safe positions with trigger.		
(4) Move barrel forward and back to ensure barrel stop	5	
and barrel latch function.		

100

TOTAL POINTS _____

CHECKLIST

METHODS/MEDIA (IMS Rev SEP 91)

Student: _____

Evaluator: _____

	Y/ N	PP	PNTS
1. Learning Objective behavior consistent with method/media selection? If not, resource constraints exist? If so, second best method chosen? Are method/media chosen best method/media available considering resource constraints?		20	
2. Stages of Learning - TPD analyzed to determine stage of learning? Is stage consistent with method/media chosen? If not, then resource constraints exist?		10	
3. Class Size - Determine small, regular or large. Method/Media selected consistent with class size?		20	
4. Number of instructors - Enough instructors available to use selected method/media?		20	
5. Resource Constraints: -enough money to use? -enough time to use? -enough equipment available for use? -scheduling permits use? -if best method/media were not selected, rationale provided on LOW (must be expressed in terms of resources)?		20	
6. Are methods/media selected recorded on LOW?		10	

Comments/Remarks:

TOTAL: _____

CHECKLIST
TRAINING AIDS
 (IMS Rev SEP 91)

All training aids will be scored together, i.e.: If the student developed three training aids, then items on the checklist will be checked for all three, and points awarded as the average of the three.

Student: _____ Evaluator: _____

	Y/ N	PP	PTS
1. Appropriate to the lesson objective.		17	
2. Necessary to clarify a point or gain attention.		15	
3. Simple. (Does not contain excessive or distracting information covers only one topic or concept)		17	
4. Accurate in content as well as form. (No misinformation; e.g. no misspellings, etc.)		17	
5. Portable/durable. (usable for intended class; e.g. a slide projector is not usable for field environment lesson)		17	
6. Attractive/neat. (legible, clear, uncluttered, centered, displayed neatly)		17	

Comments/Remarks:

TOTAL: _____

LIST OF SUPPORTING ITEMS

1. M203s and cleaning gear for each student.
 - A. 2 days prior to class:
 - (1) Verify number of students with academic office.
 - (2) Notify armory of commitment.
 - (3) Warning order to class attendants.
 - B. 1 day prior to class:
 - (1) Verify availability of weapons and personnel.
 - C. 30 minutes prior to class:
 - (1) Supervise placement of weapons and cleaning gear on desk. Each student desk should have one M203 grenade launcher. Every other desk should have: 1 bottle CLP, 1 bore brush with thong, and cleaning rags.
2. 1 Student Handout SOI-84 for each student (located in storeroom).
3. Storyboard show SOI-84 on hard drive in weapons classroom. Backup TPs in file cabinet in Weapons Section.
4. Classroom attendant needed to assist students. (LCpl Jones has done this several times and knows the routine - LCpl Smith is a good alternate.)

CLEAN THE M203 GRENADE LAUNCHER

DISASSEMBLY

CLEANING

ASSEMBLY

FUNCTION CHECK

COCK, SQUEEZE, LISTEN

CHECKLIST
CONCEPT CARD
 (IMS Rev SEP 91)

Title of Document	Y/ N	PP	PNTS
Concept Card centered at top of page, all caps, underlined?		10	
Lesson Designator			
Demonstrated knowledge of lesson designator, does not include task or step designator?		10	
Lesson Title			
Relates to the LO's contained in the lesson?		10	
Hours			
Has hours listed?		10	
Methods			
Reflects the choices made in method column of LOW?		10	
Training Support Equipment			
Reflects the choices made in media column of LOW?		10	
Terminal Learning Objectives *			
Verbatim from LOW? With Designators? Designator in parentheses at end of TLO?		15	
Enabling Learning Objectives *			
Verbatim from LOW? In sequence as designated on LOW With Designators? Designator in parentheses at end of each ELO?		15	
References			
All references used to build the lesson listed? Including those listed in learning objectives?		10	

TOTAL: _____

* The concept card may contain any number of TLO/ELO's, (i.e., no TLO and several ELO's; only one TLO or one ELO; or you may show the TLO every time, etc.), as long as they relate to and are covered in the lesson.

CONCEPT CARD

LESSON DESIGNATOR: SOI-84

LESSON TITLE: CLEAN THE M203
GRENADE LAUNCHER

<u>HOURS</u>	<u>METHOD</u>	<u>TRAINING SUPPORT EQUIPMENT</u>
1.0	L, D, PA	CAG, CPU W/PROJ, M203 (1/STD)

TERMINAL LEARNING OBJECTIVE: Without the aid of references and provided the necessary materials, clean the M203 grenade launcher IAW with the Clean the M203 Grenade Launcher checklist.
(0311.3.1)

ENABLING LEARNING OBJECTIVES:

1. Without the aid of references, disassemble the M203 grenade launcher IAW the Clean the M203 Grenade Launcher checklist and with a time limit of 4 minutes. (0311.3.1a)
2. Without the aid of references and provided the necessary materials, clean the components of the M203 grenade launcher IAW the Clean the M203 Grenade Launcher checklist. (0311.3.1b)
3. Without the aid of references, assemble the M203 grenade launcher IAW the Clean the M203 Grenade Launcher checklist and with a time limit of 4 minutes. (0311.3.1c)

REFERENCES:

1. FM 23-31
2. TM 9-1010-221-10
3. Battle Drill Guide

CHECKLIST
LESSON PLAN
(IMS Rev SEP 91)

Student: _____

Evaluator: _____

	Y/ N	PP	PNTS
INTRODUCTION		7	
1. Gain Attention: () Gain attention? () Related? () Did not detract from lesson () Answer WIIFM? () Est rapport?		7	
2. Overview: () Conceptual framework, () Lesson purp? () Relationship to other instruction?		10	
3. Introduce Learning Obj: () All LO's copied verbatim from concept card? () Has note telling stud's to read LO's?		6	
4. Method/Media: () Instructional methods/media presented (How am I going to learn this?) () Explained IRF's?		6	
5. Evaluation: () Evaluation methods presented? (How will I be tested?) () When will evaluation occur?			
BODY			
1. Main Ideas: () Same sequence as LO's/makes sense?		3	
2. Time Cues: () For each main component? () For each main idea? () Main ideas add up to time cue for body?		3	
3. Media Cues: () Highlighted (underlined or caps?) () Accurately indicates when media is presented?		3	
4. *Instructors Notes: () Placed where needed throughout lesson? () Highlighted?		3	
5. *Practice/Provide Help: () Used only where necessary? () Accurately describes student activities? () Provided help to student during practice? () Accurately described instructor role during practice?		6	
6. Transitions: () Conceptual framework of main idea in summary and intro of transition? () Not abrupt, () Camouflaged Opp for Questions and Summary?, () Transition located between last main idea and Opp for ?'s?		20	

UNITED STATES MARINE CORPS
School of Infantry
Quantico, Virginia 22134

SOI-84

LESSON PLAN

Clean the M203 Grenade Launcher

INTRODUCTION

(5 MIN)

(INSTRUCTOR'S NOTE: HAVE THE CLASSROOM ASSISTANT PLACE M203s AND CLEANING GEAR ON THE TABLES BEFORE EACH STUDENT. HAVE A KNOWLEDGEABLE CLASSROOM ASSISTANT TO ASSIST WITH DISASSEMBLY AND ASSEMBLY.)

PIC 1 ON

1. Gain Attention: Imagine yourself in a combat situation. Your squad is pinned down with the enemy beyond the high ground to your front. Too close for artillery or mortars, and out of hand grenade throwing range. You call up your grenadier. He aims in, squeezes the trigger and nothing happens. His weapon misfires due to a poorly maintained, dirty weapon. The benefit of this class is that the scenario I just described will not happen to you because you will know how to clean and supervise the cleaning of the M203 grenade launcher.
2. Overview: The purpose of this lesson is to familiarize you with the cleaning of the M203 grenade launcher. I will do this by covering three main ideas: the disassembly of the M203, cleaning and inspecting the components, and finally, the assembly and function check. This lesson relates to your previous lessons on the M16A2.
3. Learning Objectives: (INSTRUCTOR NOTE: HAVE THE STUDENTS READ THE LEARNING OBJECTIVES IN THEIR STUDENT HANDOUT)
 - a. Terminal Learning Objective: Without the aid of references and provided the necessary materials, clean the M203 grenade launcher in accordance with the clean the M203 grenade launcher checklist. (0311.3.1)
 - b. Enabling Learning Objectives:
 - (1) Without the aid of references, disassemble the M203 grenade launcher in accordance with the clean the M203 grenade launcher checklist. (0311.3.1a)

(2) Without the aid of references and provided the necessary materials, clean the components of the M203 grenade launcher in accordance with the clean the M203 grenade launcher checklist. (0311.3.1b)

(3) Without the aid of references, assemble the M203 grenade launcher in accordance with the clean the M203 grenade launcher checklist. (0311.3.1c)

4. Method/Media: This lesson will be taught by using the lecture, demonstration, and practical application method. I will be aided by computer generated graphics. You will each have a chance to disassemble and assemble the M203 grenade launcher in front of you. Please do not do anything with them until I tell you. (INSTRUCTOR NOTE: EXPLAIN THE INSTRUCTIONAL RATING FORMS TO STUDENTS IF REQUIRED TO PASS OUT)

5. Evaluation: You will be evaluated by a performance test immediately after your next field exercise, using the clean the M203 grenade launcher checklist.

(PIC 1 OFF - BLANK SCREEN ON)

TRANSITION: Are there any questions about what we will be covering today or how you will be evaluated? Take a look at the weapons in front of you. It would be very easy to clean the outside of the weapons, with just a little brushing and wiping and they would look good. But the outside appearance is not the most important part. We must clean the internal components to insure the weapon will function properly. So the first thing we must do is disassemble the M203 so we can get to the components.

BODY

(50 MIN)

(INSTRUCTOR NOTE: TIME GIVEN FOR ALL MAIN IDEAS INCLUDE THE PRACTICE AND PROVIDE HELP TIME OR PRACTICAL APPLICATION)

1. DISASSEMBLY: (20 MIN) PIC #2 ON The disassembly, cleaning, and assembly of the M16A2 rifle component has already been covered in your M16A2 rifle package. We will concern ourselves strictly with the grenade launcher. The steps in disassembly of the M203 grenade launcher are to:

a. PIC #2 OFF - PIC #3 ON First clear the weapon by depressing the barrel latch and sliding the barrel assembly forward. (INSTRUCTOR NOTE: DEMONSTRATE THE PROCEDURES AND REMIND STUDENTS TO VIEW THE DEMO AND NOT TOUCH THEIR WEAPON UNTIL TOLD TO DO SO.) You must inspect the breech to insure that no round is present.

b. PIC #3 OFF - PIC #4 ON Loosen the mounting screw and remove the quadrant sight assembly from the carrying handle of the M16A2 rifle. (INSTRUCTOR NOTE: DEMONSTRATE THE PROCEDURE)

c. PIC #4 OFF - PIC #5 ON There are two methods for removing the barrel assembly.

(1) The first method I will describe is the preferred method and is the way you will do it here. Depress the barrel latch and slide the barrel assembly forward. From the muzzle of the M16A2, count back to the fourth hole on the left side of the handguard. Insert one end of a section of cleaning rod into the fourth hole, depress the barrel stop, and slide the barrel assembly off the receiver track. (INSTRUCTOR NOTE: DEMONSTRATE PROCEDURE THEN REASSEMBLE)

(2) The second method is to remove the handguard and sight assembly, then push down on the slip ring of the M16A2, pulling down and out on the base. Depress the barrel latch and slide the barrel assembly forward. Then depress the barrel stop and slide the barrel assembly from the receiver track. (INSTRUCTOR NOTE: DEMONSTRATE PROCEDURE)

PIC #5 OFF - BLANK SCREEN ON

PRACTICE: Are there any questions about how to disassemble the M203? What I want you to do now is to pick up the weapon in front of you and attempt to disassemble the grenade launcher. If you have any problem or questions, the assistant instructor and I will be walking around to provide you with any help you may require.

PROVIDE HELP: WALK AROUND CLASSROOM AND ASSIST STUDENTS AS NEEDED UNTIL ALL GRENADE LAUNCHERS ARE DISASSEMBLED, ALSO THIS IS A GOOD OPPORTUNITY TO PROBE STUDENTS ON WHAT THEY HAVE LEARNED SO FAR BY ASKING QUESTIONS TO INSURE LEARNING IS TAKING PLACE.

TRANSITION: Did everyone get his grenade launcher disassembled? What was the first step in disassembly? (ANSWER- CLEAR THE WEAPON) What is the procedure for clearing the weapon? (ANSWER- DEPRESS BARREL LATCH, SLIDE BARREL FORWARD, INSPECT BREECH.) Before we cover the steps on how to assemble the weapon, reason we took it apart in the first place was to clean it, which leads into the next main idea, the cleaning of the components of the M203 grenade launcher.

2. CLEANING THE GRENADE LAUNCHER: PIC #6 ON (10 MIN) To properly clean the launcher, in accordance with TM 9-1010-221-10, you will need a bore brush with thong, Cleaning Lubricant Preservative (CLP), and some cleaning rags. While cleaning the launcher, you should take time to inspect the parts to ensure the weapon will continue to function when needed to do so.

a. PIC #6 OFF - PIC #7 ON First apply CLP to the bore brush and pull it through the barrel assembly several times using the thong. (INSTRUCTOR NOTE: DEMONSTRATE PROCEDURE) At this time, inspect the barrel assembly for cracks.

b. PIC #7 OFF - PIC #8 ON Clean the area around the breech insert and firing pin hole using CLP. (INSTRUCTOR NOTE: DEMONSTRATE PROCEDURE) Ensure there is no rust or dirt in the firing pin hole and that the face of the receiver is clean.

c. PIC #8 OFF - PIC #9 ON Clean all the dust and dirt from the weapon using CLP and a cleaning rag. (INSTRUCTOR NOTE: DEMONSTRATE PROCEDURE) Inspect the handguards for cracks, and see that the sights are not bent, and the markings are legible. Turn both the windage adjusting screw and the elevation adjusting screw on the leaf sight and see that they turn freely without binding. Note that the quadrant sight appears extremely fragile - take special care inspecting and cleaning the quadrant sight.

d. PIC #9 OFF - PIC #10 ON Keep the locator slot clean. This can be cleaned with a cleaning rag. (INSTRUCTOR NOTE: POINT OUT LOCATOR SLOT)

e. PIC #10 OFF - PIC #11 ON Wipe the inside of the barrel with a cleaning rag and CLP. (INSTRUCTOR NOTE: DEMONSTRATE PROCEDURE)

PIC #11 OFF - BLANK SCREEN ON

PRACTICE: Everyone take a few minutes to try the steps we just discussed. The classroom assistant and I will be walking around the classroom to help you if needed.

PROVIDE HELP: WALK AROUND CLASSROOM AND PROVIDE HELP AS NEEDED. ENSURE EVERYONE LOCATES THE LOCATOR SLOT.

TRANSITION: Ensure that as you clean the grenade launcher, as with any weapon, that you do not leave any excess CLP or threads from the cleaning rag on or in the components. Why? (Probe for - Weapon may malfunction, as if dirty.) Now that our disassembled weapons have all the components cleaned, what is the next thing to do? (Assemble the launcher.)

3. ASSEMBLE THE GRENADE LAUNCHER: (20 MIN) PIC #12 ON
Assembly of the M203 grenade launcher is relatively simple. It is the reverse order of disassembly.

a. PIC #12 OFF - PIC #13 ON Slide the barrel assembly onto the receiver until the barrel stop engages. (INSTRUCTOR NOTE: DEMONSTRATE THE PROCEDURE)

b. PIC #13 OFF - PIC #14 ON Then install the quadrant sight bracket assembly and quadrant sight assembly clamp to carrying handle of the M16A2 rifle, and tighten the mounting screw. (INSTRUCTOR NOTE: DEMONSTRATE THE PROCEDURE)

PIC #14 OFF - BLANK SCREEN ON

PRACTICE: Keeping in mind that assembly is basically the reverse order of disassembly, everyone assemble your weapon, and I will be available to assist or answer any questions.

PROVIDE HELP: ASSIST STUDENTS AS NECESSARY TO ASSEMBLE ALL LAUNCHERS.

c. What was the first step in disassembly? (Clear the weapon.) What is always the last step in assembling a weapon? (Perform a function check.) The last thing we must do before turning in this weapon is a function check.

(1) PIC #15 ON First be sure that the weapon is unloaded. Then cock the launcher and squeeze the trigger. The firing pin should release. (INSTRUCTOR NOTE: DEMONSTRATE THE PROCEDURE)

(2) PIC #15 OFF - PIC #16 ON Now hold the trigger to the rear and cock the launcher. Release the trigger and then squeeze the trigger again. The firing pin should release. (INSTRUCTOR NOTE: DEMONSTRATE THE PROCEDURE)

(3) PIC #16 OFF - PIC #17 ON Next check the safety in both the safe and fire positions with the trigger. The launcher must be cocked before the safety can be placed in the fire position. (INSTRUCTOR NOTE: DEMONSTRATE THE PROCEDURE)

(4) PIC #17 OFF - PIC #18 ON Then move the barrel forward and back to be sure the barrel stop and barrel latch function. (INSTRUCTOR NOTE: DEMONSTRATE THE PROCEDURE)

PRACTICE/PROVIDE HELP: Let's do a function check by the numbers. Raise your hand if you need help. PROVIDE ASSISTANCE AS NEEDED. (INSTRUCTOR NOTE: START THE FUNCTION CHECK BY THE NUMBERS) 1. Cock the launcher and pull the trigger. 2. Listen for the click. PAUSE 3. Now hold the trigger and cock the launcher. 4. Release and then squeeze the trigger. 5. Listen for the click. PAUSE 6. Cock the launcher, put on safe, and attempt to fire. 7. Listen for the click, you shouldn't hear one. PAUSE 8. Move the launcher forward and back. PAUSE Any problems?

PIC #18 OFF - BLANK SCREEN ON

TRANSITION: At this point we should each have a clean, functioning weapon. Let's have someone stand up and demonstrate the proper way to clear the weapon. (INSTRUCTOR NOTE: CALL ON A VOLUNTEER AND ASSIST AS NECESSARY) Can anyone describe the steps in disassembly? (INSTRUCTOR NOTE: PROBE FOR CLEANING) (What's next? What cleaning gear do we need? Where's the locator slot?) What's the difference, besides the order, between disassembly and assembly? (Clear before disassembly, function check after assembly.) (INSTRUCTOR NOTE: CALL ON A STUDENT TO DEMONSTRATE A FUNCTION CHECK. IF SATISFIED WITH FEEDBACK AT THIS TIME PROVIDE CLOSING INSTRUCTIONS AND END THE LESSON, OTHERWISE, MOVE ON TO THE OPPORTUNITY FOR QUESTIONS AND SUMMARY.

OPPORTUNITY FOR QUESTIONS:

(3 MIN)

1. QUESTIONS FROM THE CLASS.
2. QUESTIONS TO THE CLASS.

a. QUESTION: Where is the barrel stop located?

ANSWER: From the muzzle of the M16A2, count back to the fourth hole on the left side of the handguard.

b. QUESTION: How do you clean the launcher assembly?

ANSWER: Clean by pulling a bore brush with CLP on it through the launcher several times with the thong. Then wipe the inside with a rag with CLP on it.

(2 MIN)

SUMMARY:

1. So far we have covered how to clear and disassemble the M16A2 M203 grenade launcher, how to clean the components, and how to assemble the grenade launcher, including a function check.

2. Everyone please clear and lock the slides to the rear, leave the weapons on the tables, muzzles pointing left, and turn in the cleaning gear to the classroom attendant as you exit. Those two students with IRFs turn them in. Your next class begins at

_____.

CHECKLIST
STUDENT HANDOUT
 (IMS Rev SEP 91)

Student: _____ Evaluator: _____

Advance Handout	Y/N	PP	PTS
General - from the overview of Lesson Plan			
Learning Objectives - verbatim from Lesson Plan			
Here Is What To Do - tells the student exactly what to do to prepare for the lesson			
Information - follows flow of ideas in lesson			
In Class/Advance Issued			
Outline - follows conceptual framework			
Type: a. Fill in Blank - enough room and time b. Definition - not technical information c. Completed - technical information			
References - all ref's used in lesson included			
Notes - only info which has no other place			
SHO does not contain unnecessary information			

TOTAL: _____

In Class/ No Advance	Y/N	PP	PTS
Learning Objectives - verbatim from Lesson Plan		25	
Outline - follows conceptual framework		30	
Type: a. Fill in Blank - enough room and time b. Definition - not technical information c. Completed - technical information	_____ _____ _____	20	
References - all ref's used in lesson included		10	
Notes - only info which has no other place		5	
SHO does not contain unnecessary information		10	

TOTAL: _____

Post Class	Y/N
Transcription provided - exactly the same as in class	
Information - supplementary	
Answer Keys - to in class quizzes	

STUDENT HANDOUTClean the M203 Grenade LauncherLEARNING OBJECTIVES:

1. Terminal Learning Objective. Without the aid of references and provided the necessary materials, clean the M203 grenade launcher in accordance with the Clean the M203 Grenade Launcher checklist. (0311.3.1)

2. Enabling Learning Objectives.

(1) Without the aid of references, disassemble the M203 grenade launcher, IAW the Clean the M203 Grenade Launcher checklist. (0311.3.1a)

(2) Without the aid of references and provided the necessary materials, clean the components of the M203 grenade launcher in accordance with the Clean the M203 Grenade Launcher checklist. (0311.3.1b)

(3) Without the aid of references, assemble the M203 grenade launcher in accordance with the Clean the M203 Grenade Launcher checklist. (0311.3.1c)

OUTLINE:

1. Disassembly. The disassembly, cleaning, and assembly of the M16 rifle component has already been covered in the M16A2 Rifle package. This lesson will cover only the grenade launcher. The steps in disassembly of the M203 are to:

a. First clear the weapon by depressing the barrel latch and sliding the barrel assembly forward. Inspect the breech to insure that no round is present.

b. Loosen the mounting screw and remove the quadrant sight assembly from the carrying handle of the M16 rifle.

c. There are two methods for removing the barrel assembly:

(1) The first method is the preferred method and is the way you will do it here. Depress the barrel latch and slide the barrel assembly forward. From the muzzle of the M16A2, count back to the fourth hole on the left side of the handguard. Insert one end of a section of cleaning rod into the fourth hole, depress the barrel stop, and slide the barrel assembly off the receiver track.

(2) The second method is to remove the handguard and sight assembly, then push down on the slip ring of the M16A1, pulling down and out on the base. Depress the barrel latch and slide the barrel assembly forward. Then depress the barrel stop and slide the barrel assembly from the receiver track.

2. Cleaning. To properly clean the launcher, in accordance with TM 9-1010-221-10, you will need a bore brush with thong, Cleaning Lubricant Preservative (CLP), and some cleaning rags. While cleaning, you should inspect the components to ensure the weapon will continue to function.

a. First apply CLP to the bore brush and pull it through the barrel assembly several times using the thong. Inspect the barrel assembly for cracks.

b. Clean the area around the breech insert and firing pin hole using CLP. Ensure there is no rust or dirt in the firing pin hole and that the face of the receiver is clean.

c. Clean all the dust and dirt from the weapon using CLP and a cleaning rag. Inspect the handguards for cracks, and see that the sights are not bent, and the markings are legible. Turn both the windage adjusting screw and the elevation adjusting screw on the leaf sight and see that they turn freely without binding. Take special care with the quadrant sight as it is extremely fragile.

d. Keep the locator slot clean. This can be cleaned with a cleaning rag.

e. Wipe the inside of the barrel with a cleaning rag and CLP.

3. Assembly. Assembly of the M203 grenade launcher is relatively simple. It is the reverse order of disassembly.

a. Slide the barrel assembly onto the receiver until the barrel stop engages.

b. Then install the quadrant sight bracket assembly and quadrant sight assembly clamp to carrying handle of the M16 rifle, and tighten the mounting screw.

c. The last thing we must do before turning in this weapon is a function check.

(1) First be sure that the weapon is unloaded. Then cock the launcher and squeeze the trigger. The firing pin should release, listen for the click.

(2) Now hold the trigger to the rear and cock the launcher. Release the trigger and then squeeze the trigger again. The firing pin should release.

(3) Next check the safety in both the safe and fire positions with the trigger. The launcher must be cocked before the safety can be placed in the fire position.

(4) Then move the barrel forward and back to be sure the barrel stop and barrel latch function.

REFERENCES:

1. TM 9-1010-221-10
2. FM 23-31
3. Battle Drill Guide

